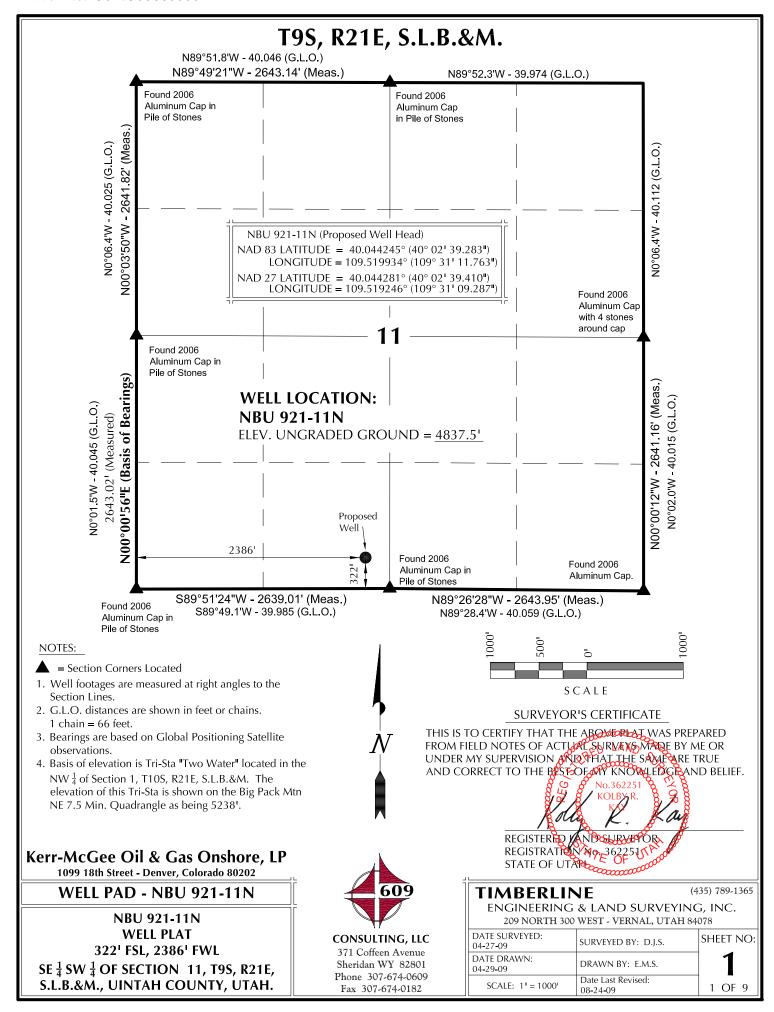
	STATE OF UTAH  DEPARTMENT OF NATURAL RESOURG  DIVISION OF OIL, GAS AND MININ						FORI			
APPLI	CATION FOR	PERMIT TO DRILL				1. WELL NAME and NUMBER  NBU 921-11N				
2. TYPE OF WORK  DRILL NEW WELL (	REENTER P	&A WELL ( DEEPEN	N WELL			3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL  Gas Well Coalbed Methane Well: NO						5. UNIT or COMMU	NITIZATION AGREENATURAL BUTTES	EMENT NAME		
6. NAME OF OPERATOR		GAS ONSHORE, L.P.				7. OPERATOR PHO				
8. ADDRESS OF OPERATOR		Denver, CO, 80217				9. OPERATOR E-MA		com		
10. MINERAL LEASE NUMBER	. DOX 173773, L	11. MINERAL OWNER	RSHIP			12. SURFACE OWN	-			
(FEDERAL, INDIAN, OR STATE) UTU 01188		FEDERAL INDI	IAN 🗍 STATE (	) F	FEE 🗍	FEDERAL INI	DIAN 📵 STATE (	FEE (		
13. NAME OF SURFACE OWNER (if box 12	= 'fee')					14. SURFACE OWN	ER PHONE (if box 1	2 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box	12 = 'fee')					16. SURFACE OWN	ER E-MAIL (if box 1	.2 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME		18. INTEND TO COM		ION FR	ROM	19. SLANT				
(if box 12 = 'INDIAN')  Ute Tribe			ommingling Applicat	ion) N	по 🗍	VERTICAL ( DIF	RECTIONAL ( HO	ORIZONTAL 🗍		
20. LOCATION OF WELL	FC	OOTAGES	QTR-QTR	SE	ECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE	322 FS	L 2386 FWL	SESW		11	9.0 S	21.0 E	S		
Top of Uppermost Producing Zone	322 FS	L 2386 FWL	SESW	SESW 11		9.0 S	21.0 E	S		
At Total Depth	322 FS	L 2386 FWL	SESW		11	9.0 S	21.0 E	S		
21. COUNTY UINTAH		22. DISTANCE TO NE	AREST LEASE LIN	E (Feet	t)	23. NUMBER OF AC	RES IN DRILLING U	JNIT		
		25. DISTANCE TO NE (Applied For Drilling		AME PO	OOL	<b>26. PROPOSED DEPTH</b> MD: 10300 TVD: 10300				
27. ELEVATION - GROUND LEVEL 4838		28. BOND NUMBER	WYB000291				ILLING WATER / PROVAL NUMBER IF APPLICABLE Permit #43-8496			
		АТ	TACHMENTS							
VERIFY THE FOLLOWING	ARE ATTACH	IED IN ACCORDANC	CE WITH THE UT	ГАН О	IL AND G	AS CONSERVATI	ON GENERAL RU	ILES		
WELL PLAT OR MAP PREPARED BY	LICENSED SUF	RVEYOR OR ENGINEER	сом	IPLETE	DRILLING	PLAN				
AFFIDAVIT OF STATUS OF SURFACE	OWNER AGRE	EEMENT (IF FEE SURFA	ACE) FORM	4 5. IF	OPERATOR	R IS OTHER THAN T	HE LEASE OWNER			
DIRECTIONAL SURVEY PLAN (IF DI	RECTIONALLY	OR HORIZONTALLY	<b>№</b> торо	OGRAPI	HICAL MAP	•				
NAME Danielle Piernot	T	ITLE Regulatory Analyst		Р	<b>PHONE</b> 720	929-6156				
SIGNATURE	D	<b>ATE</b> 12/18/2009		E	<b>MAIL</b> danie	elle.piernot@anadarko	o.com			
API NUMBER ASSIGNED 43047508660000	A	PPROVAL			bol	Refill				
					Perm	ermit Manager				

API Well No: 43047508660000 Received: 12/18/2009

	Proposed Hole, Casing, and Cement										
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)							
Prod	7.875	4.5	0	10300							
Pipe	Grade	Length	Weight								
	Grade HCP-110 LT&C	700	11.6								
	Grade I-80 Buttress	9600	11.6								

API Well No: 43047508660000 Received: 12/18/2009

	Proposed Hole, Casing, and Cement									
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)						
Surf	11	8.625	0	2700						
Pipe	Grade	Length	Weight							
	Grade I-80 LT&C	2700	28.0							



# **NBU 921-11N**

Surface: 322' FSL 2,386' FWL (SE/4SW/4) Sec. 11 T9S R21E

Uintah, Utah Mineral Lease: UTU 01188 Surface Owner: Ute Indian Tribe Operator: Kerr-McGee Oil & Gas Onshore LP

# ONSHORE ORDER NO. 1

# **DRILLING PROGRAM**

# 1. – 2. Estimated Tops of Important Geologic Markers: Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	Resource		
Uinta	0 – Surface			
Green River	1,803'			
Birds Nest	2,126'	Water		
Mahogany	2,498'	Water		
Wasatch	5,167'	Gas		
Mesaverde	7,985'	Gas		
MVU2	8,942'	Gas		
MVL1	9,449'	Gas		
TD	10.300'			

# 3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program.

# 4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

# 5. <u>Drilling Fluids Program</u>:

Please refer to the attached Drilling Program.

# **6.** Evaluation Program:

Please refer to the attached Drilling Program.

# 7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 10,300' TD, approximately equals 6,417 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4,151 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

# 8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

# 9. <u>Variances:</u>

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

# **Background**

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found

competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

#### Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

#### Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see

attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

# Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). The air rig operation utilizes a 5M BOPE when drilling. This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

#### **Conclusion**

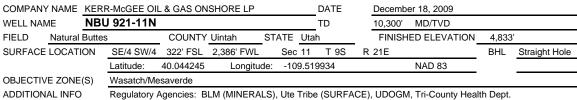
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

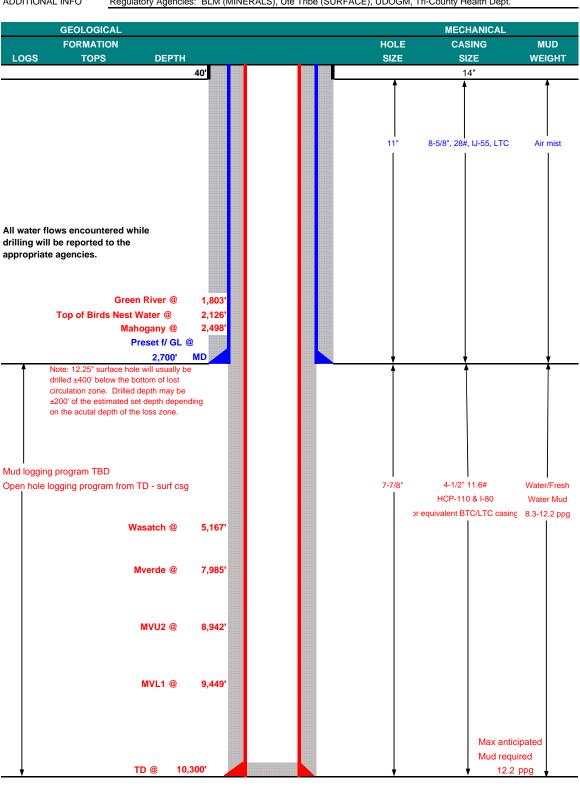
## 10. Other Information:

Please refer to the attached Drilling Program.



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM







#### **KERR-McGEE OIL & GAS ONSHORE LP**

#### DRILLING PROGRAM

#### **CASING PROGRAM**

			DESIGN FACTORS							
	SIZE	INT	INTERVAL		WT.	GR.	CPLG.	BURST COLLAPSE		TENSION
CONDUCTOR	14"	(	0-40'							
								3,390	1,880	348,000
SURFACE	8-5/8"	0	to	2700	28.00	IJ-55	LTC	0.79*	1.49	4.60
								7,780	6,350	278,000
PRODUCTION	4-1/2"	0	to	9600	11.60	I-80	BTC	1.82	1.04	2.86
								10,690	8,650	279,000
		9600	to	10300	11.60	HCP-110	LTC	2.50	1.32	42.23

\*Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 1.99

- 1) Max Anticipated Surf. Press.(MASP) (Surf Csg) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac grad x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.2 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

MASP 4,151 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.2 ppg)

0.62 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

MABHP 6,417 psi

#### **CEMENT PROGRAM**

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD				
SURFACE LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18				
Option 1		+ 0.25 pps flocele								
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	260	0%	15.60	1.18				
		+ 2% CaCl + 0.25 pps flocele								
		Premium cmt + 2% CaCl								
SURFACE	NOTE: If well will circulate water to surface, option 2 will be utilized									
Option 2 LEAD	2,200'	Prem cmt + 16% Gel + 10 pps gilsonite	200	35%	11.00	3.82				
		+ 0.25 pps Flocele + 3% salt BWOC								
TAIL	500	Premium cmt + 2% CaCl	150	35%	15.60	1.18				
		+ 0.25 pps flocele								
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18				
PRODUCTION LEAD	4,660'	Premium Lite II + 0.25 pps celloflake +	380	40%	11.00	3.38				
		5 pps gilsonite + 10% gel '+ 1% Retarder								
TAIL	5,640'	50/50 Poz/G + 10% salt + 2% gel	1,380	40%	14.30	1.31				
		+ 0.1% R-3								

<sup>\*</sup>Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

#### **FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.

**PRODUCTION** 

Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint for a total of 15 bow spring centralizers.

#### **ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

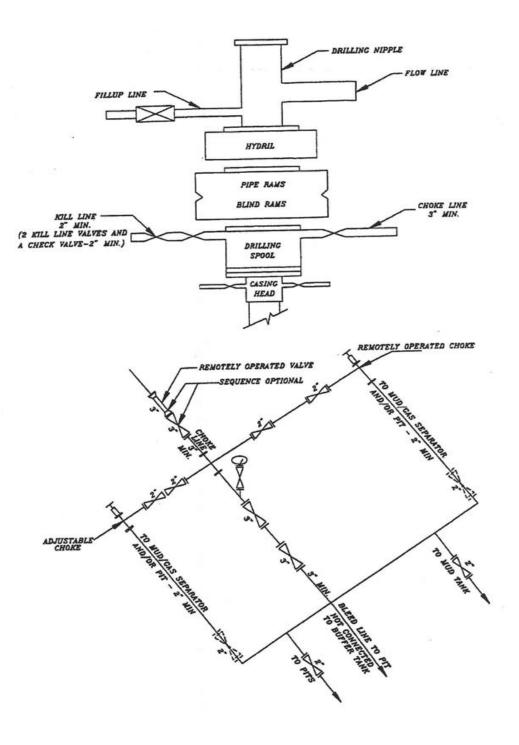
Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utililzed.

DRILLING ENGINEER:		DATE:	
	John Huycke / Emile Goodwin	•	
DRILLING SUPERINTENDENT:		DATE:	
	John Merkel / Lovel Young	-	

<sup>\*</sup>Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

EXHIBIT A NBU 921-11N



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

#### WELL PAD LEGEND

----

WELL LOCATION

EXISTING CONTOURS (2' INTERVAL)
PROPOSED CONTOURS (2' INTERVAL)

#### WELL PAD NBU 921-11N QUANTITIES

EXISTING GRADE @ LOC. STAKE = 4,837.5' FINISHED GRADE ELEVATION = 4,833.0' CUT SLOPES = 1.5:1 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 11,152 C.Y.
TOTAL FILL FOR WELL PAD = 10,413 C.Y.
TOPSOIL @ 6" DEPTH = 2,839 C.Y.
EXCESS MATERIAL = 739 C.Y.
TOTAL PAD DISTURBANCE = 3.52 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 32,370 BARRELS
RESERVE PIT VOLUME
+/- 8,510 CY
BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
+/- 16,080 BARRELS
BACKFLOW PIT VOLUME
+/- 4,290 CY

Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-11N

WELL PAD - LOCATION LAYOUT

NBU 921-11N

322' FSL, 2386' FWL

SE1/4 SW1/4 OF SECTION 11, T9S, R21E

S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC 371 Coffeen Avenue Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

Scale:	1"=100'	Date:	6/5/09	SHEET NO:	
REVISI	ED:		RAW 8/25/09	2	2 OF 9

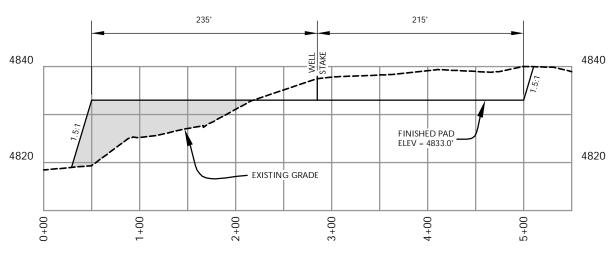
HORIZONTAL 0 50 100 1" = 100

2' CONTOURS

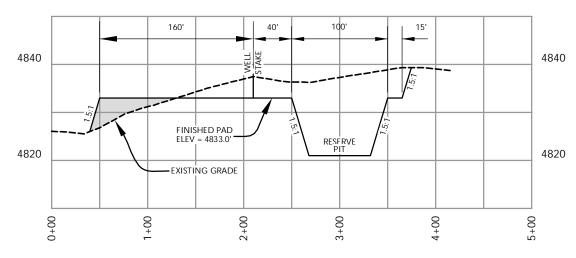
**TIMBERLINE** (435) 789-1365

ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078





# **CROSS SECTION A-A'**



Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-11N

**WELL PAD - CROSS SECTIONS** NBU 921-11N 322' FSL, 2386' FWL SE1/4 SW1/4 OF SECTION 11, T9S, R21E S.L.B.&M., UINTAH COUNTY, UTAH

**CROSS SECTION B-B'** 



CONSULTING, LLC 371 Coffeen Avenue Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

HORIZONTAL			1" = 100'
VERTICAL	0	10	20 1" = 20'

j	Scale:	1"=100'	Date:	6/5/09	SHEET NO:	
	REVISED:			RAW 8/25/09	3	3 OF 9

**TIMBERLINE ENGINEERING & LAND SURVEYING, INC.** 

100

209 NORTH 300 WEST - VERNAL, UTAH 84078

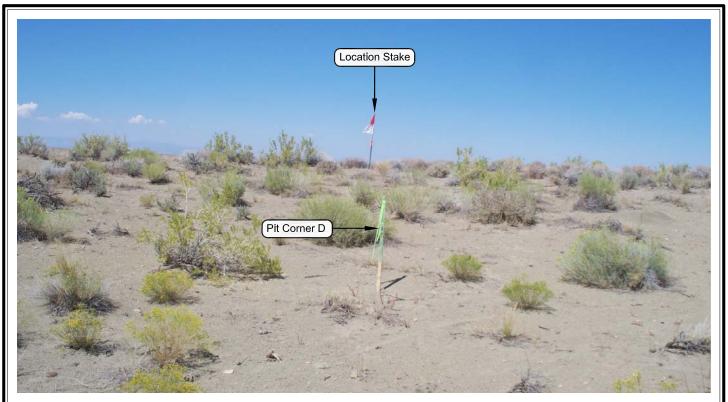


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

**CAMERA ANGLE: NORTHWESTERLY** 

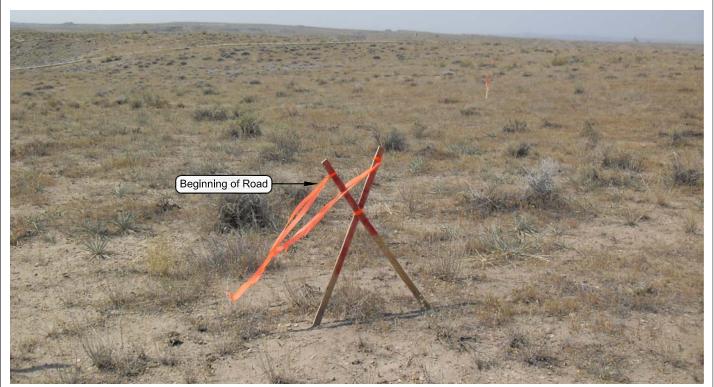


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

**CAMERA ANGLE: WESTERLY** 

# Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

# Well Pad - NBU 921-11N

NBU 921-11N LOCATION PHOTOS 322' FSL, 2386' FWL SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  OF SECTION 11, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.



# CONSULTING, LLC

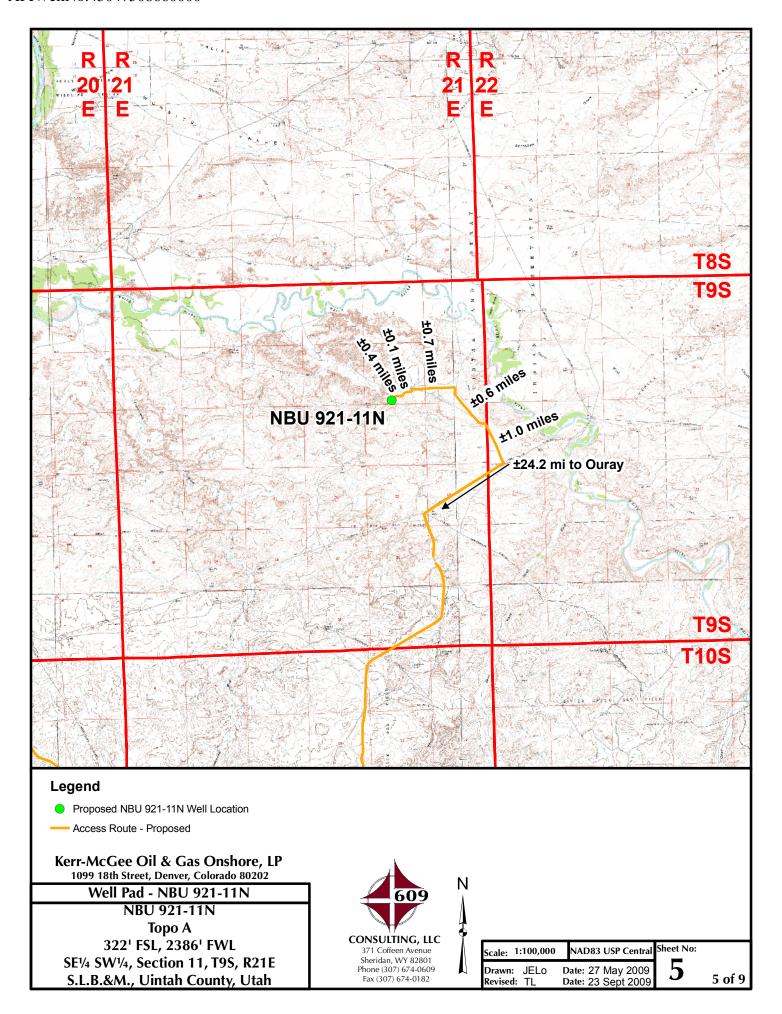
371 Coffeen Avenue Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

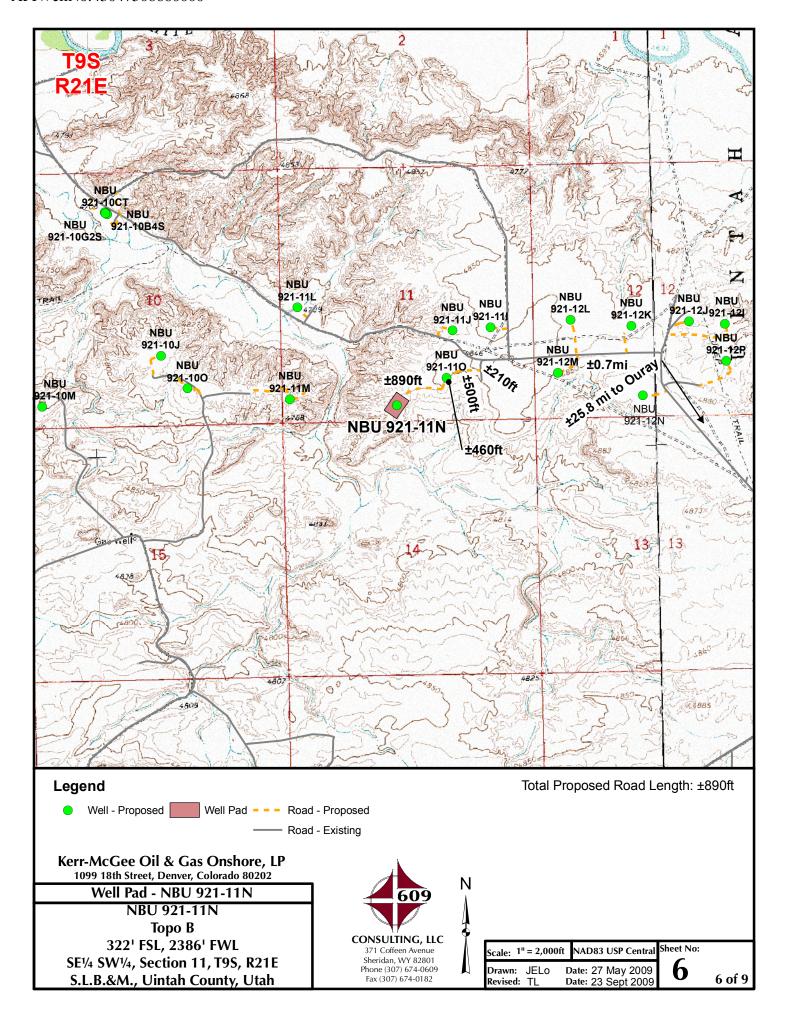
#### TIMBERLINE

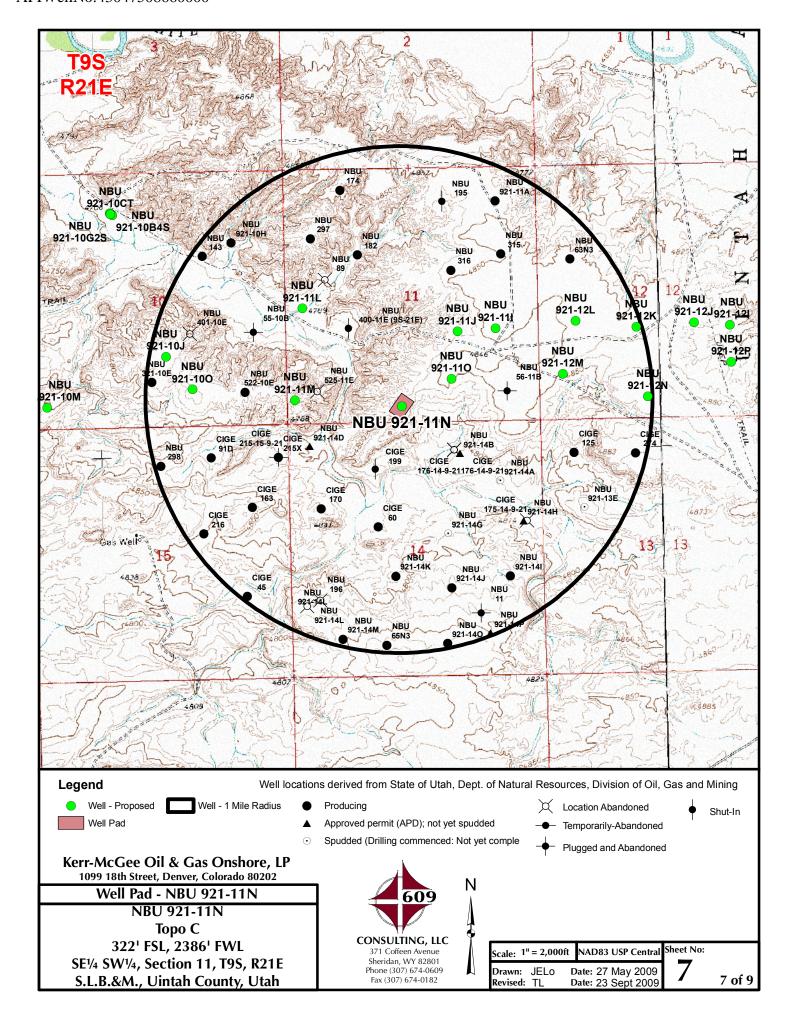
(435) 789-1365

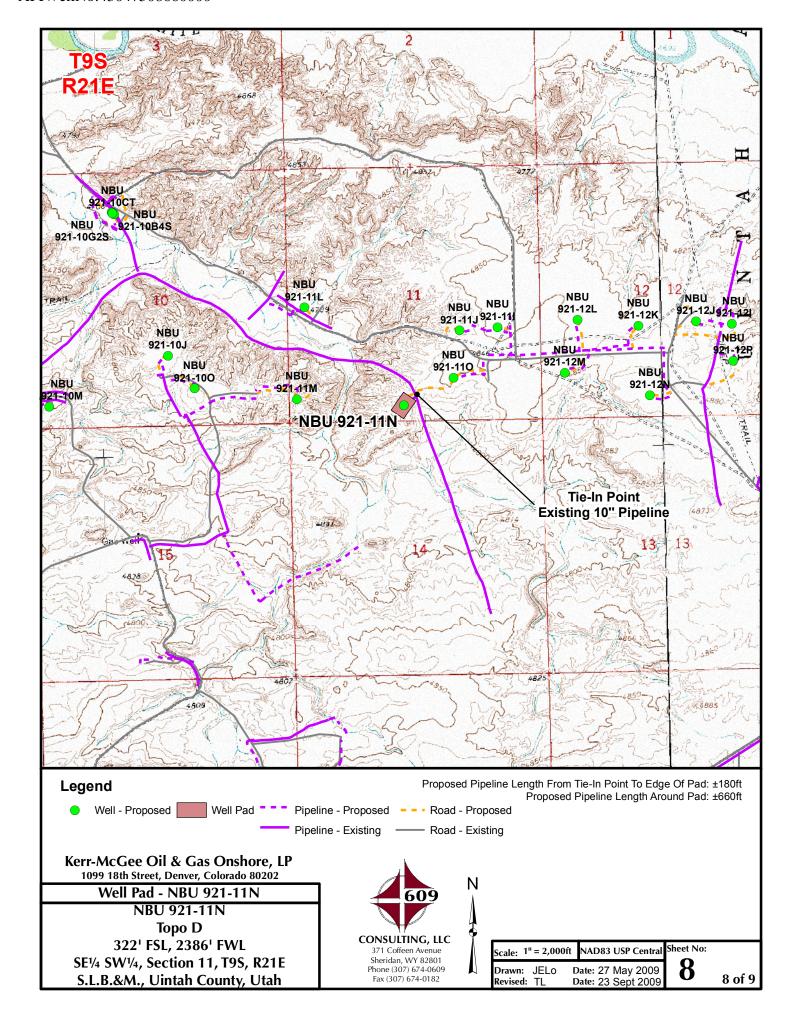
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

П	20711011111300	VIDOL VERMINE, CIMICO,	
	DATE PHOTOS TAKEN: 04-27-09	PHOTOS TAKEN BY: D.J.S.	SHEET NO:
	DATE DRAWN: 04-29-09	DRAWN BY: E.M.S.	4
	Date Last Revised: 09-09-09	9	4 OF 9









# Kerr-McGee Oil & Gas Onshore, LP WELL PAD - NBU 921-11N WELL - NBU 921-11N Section 11, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL. UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 11.2 MILES TO THE INTERSECTION OF THE GLEN BENCH ROAD (COUNTY B ROAD 3260). EXIT LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION ALONG THE GLEN BENCH ROAD APPROXIMATELY 13.0 MILES TO A SERVICE ROAD TO THE NORTHWEST. EXIT LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 1.0 MILES TO THE INTERSECTION OF A SECOND SERVICE ROAD TO THE NORTHWEST. EXIT RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION ALONG THE SECOND SERVICE ROAD APPROXIMATELY 0.6 MILES TO A THIRD SERVICE ROAD TO THE WEST. EXIT LEFT AND PROCEED IN A WESTERLY DIRECTION ALONG THE THIRD SERVICE ROAD APPROXIMATELY 0.7 MILES TO A FOURTH SERVICE ROAD TO THE SOUTH. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG THE FOURTH SERVICE ROAD APPROXIMATELY 210 FEET TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1,850 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE WELL LOCATION IS APPROXIMATELY 57.6 MILES IN A SOUTHERLY DIRECTION.

#### NBU 921-11N

Surface: 322' FSL 2,386' FWL (SE/4SW/4) Sec. 11 T9S R21E

Uintah, Utah Mineral Lease: UTU 01188 Surface Owner: Ute Indian Tribe Operator: Kerr-McGee Oil & Gas Onshore LP

## ONSHORE ORDER NO. 1

# MULTI-POINT SURFACE USE & OPERATIONS PLAN SUBMITTED WITH SITE-SPECIFIC INFORMATION

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. An NOS was submitted showing the surface location in SE/4 SW/4 of Section 11 T9S R21E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BIA-Ft Duchesne Office.

An on-site meeting was held on September 1, 2009. Present were:

- Verlyn Pindell, Dave Gordon BLM;
- Bucky Secakuku BIA
- Bradley Pinnecoose Ute Indian Tribe
- Scott Carson Smiling Lake Consulting, Inc.
- Kolby Kay, Mitch Batty 609 Consulting, LLC
- Nick Hall Grasslands Consulting, Inc.
- Hal Blanchard, Charles Chase, Tony Kazeck and Raleen White Kerr-McGee.

## 1. Existing Roads:

- A) Refer to Topo Map A for directions to the location.
- B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

# 2. Planned Access Roads:

See MDP for additional details on road construction.

Approximately  $\pm 890$ ' ( $\pm 0.17$  miles) of new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

## 3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

# 4. <u>Location of Existing and Proposed Facilities:</u>

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

Approximately  $\pm 180$ ' ( $\pm 0.03$  miles) of pipeline is proposed. Another approximately  $\pm 660$ ' ( $\pm 0.13$  miles) of pipeline is proposed around the pad. Please refer to Topo D for the existing pipeline. Appropriate surface use agreements have been or will be obtained from the Ute Indian Tribe. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

At the onsite, Kerr-McGee agreed to the following:

- Arch monitor
- Re-route water run-off/drainages around well pad
- Bring in gravel/pit-run
- Get rid of backflow pit and move the reserve pit to the center of the corners to avoid fill
- Construct low-water crossings on access road

## 5. Location and Type of Water Supply:

See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

No water well is to be drilled on this lease.

# **6.** Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

# 7. <u>Methods of Handling Waste Materials</u>:

See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

#### **NBU 921-11N**

RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

## 8. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

# **9.** Well Site Layout: (See Location Layout Diagram)

See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

# 10. Plans for Reclamation of the Surface:

See MDP for additional details on Plans for Reclamation of the Surface.

Kerr-McGee shall call the BIA for the seed mixture prior to starting interim and/or final reclamation actions.

## 11. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe PO Box 70 Fort Duchesne, Utah 84026 435-722-5141

# NBU 921-11N

The mineral ownership is listed below:
United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
435-781-4400

# 12. Other Information:

See MDP for additional details on Other Information.

# APIWeIINo:43047508660000

# 13. Lessee's or Operators' Representative & Certification:

Danielle Piernot Regulatory Analyst Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6156 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Danlelle Piernot

Danielle Piernot

December 18, 2009

Date

CLASS I REVIEW OF KERR-MCGEE OIL & GAS ONSHORE LP'S 20 PROPOSED WELL LOCATIONS (T9S, R21E, SEC. 8, 10, 11, 12, 17, 18, 19, AND 20) IN UINTAH COUNTY, UTAH

By:

Patricia Stavish

Prepared For:

Ute Tribal Land Uintah and Ouray Agency

Prepared Under Contract With:

Kerr-McGee Oil & Gas Onshore LP 1368 South 1200 East Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc. P.O. Box 219 Moab, Utah 84532

MOAC Report No. 09-39b

October 9, 2009

United States Department of Interior (FLPMA)
Permit No. 09-UT-60122

Ute Tribal Permit No. A09-363

# **Paleontological Reconnaissance Survey Report**

Survey of Kerr McGee's Proposed Well Pads, Access Roads & Pipelines for "NBU #921-11I, J, L, N & O" (Sec. 10 & 11, T 9 S, R 21 E)

Ouray SE Topographic Quadrangle Uintah County, Utah

May 18, 2009

Prepared by Stephen D. Sandau Paleontologist for Intermountain Paleo-Consulting P. O. Box 1125 Vernal, Utah 84078



# **Grasslands Consulting, Inc.**

4800 Happy Canyon Road, Suite 110, Denver, CO 80237 (303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

**Report Number:** GCI #99

**Operator:** Kerr-McGee Oil & Gas Onshore LP

Wells: NBU 921-11J and NBU 921-11N

**Pipeline:** Associated pipelines leading to proposed well pads

Access Road: Associated access roads leading to proposed well pads

Location: Section 11, Township 9 South, Range 21 East; Uintah County, Utah

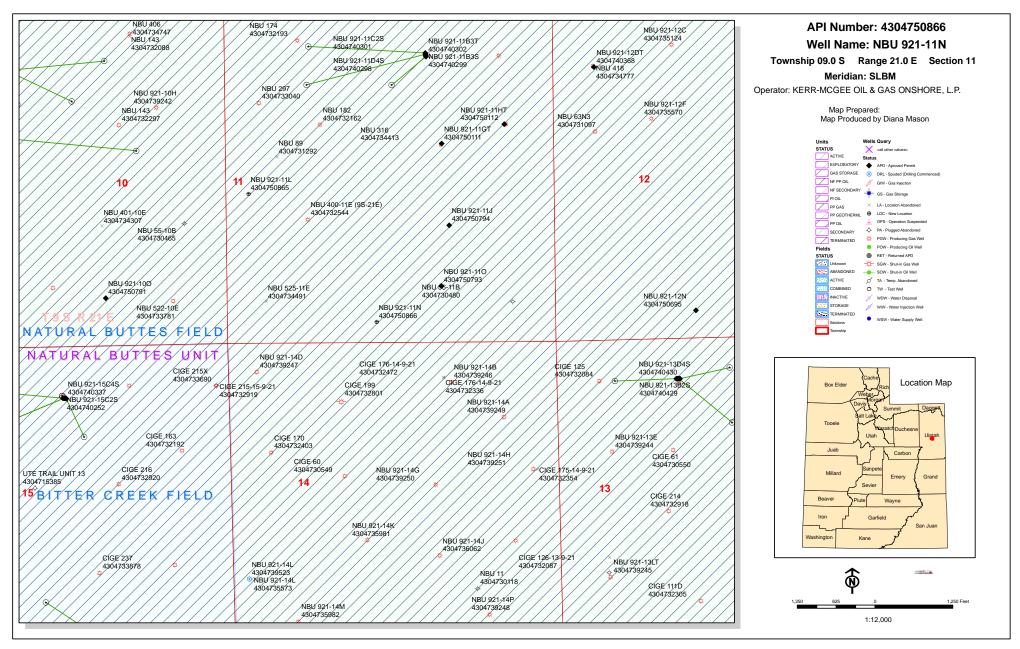
**Survey-Species:** Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*)

**Date:** July 13-15, 2009

Observers: Grasslands Consulting, Inc. Biologists: Nick Hall, Dan Hamilton, BJ Lukins, and

Jay Slocum.

Weather: Partly cloudy, 80-90°F, 0-5 mph winds with no precipitation.



# **United States Department of the Interior**

# BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

January 11, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

43-047-50854	NBU					R21E R21E				
43-047-50855	NBU	1021-12A2BS				R21E R21E				
43-047-50856	NBU	1021-12B3DS				R21E R21E				
43-047-50857	NBU	1021-12B4BS				R21E R21E				
43-047-50865	NBU	921-11L	Sec	11	T09S	R21E	2410	FSL	0358	FWL
43-047-50866	NBU	921-11N	Sec	11	T09S	R21E	0322	FSL	2386	FWL
43-047-50867	NBU	921-12P	Sec	12	T09S	R21E	1128	FSL	1300	FEL
43-047-50872	NBU	921-27D3AS				R21E R21E	_			
43-047-50873	NBU	921-27E2AS				R21E R21E				
43-047-50874	NBU	921-27F2BS				R21E R21E				

API :	# WELL	NAME	LOCATION

43-047-508	375	NBU	921-27F3CS								2057	
				BHL	Sec	27	T09S	R21E	2486	FNL	1582	FWL
43-047-508	376	NBU	921-27F4DS								2065	
				BHL	Sec	27	T09S	R21E	2467	FNL	2440	FWL
43-047-508	377	NBU	921-27C1BS		Sec	27	T09S	R21E	1710	FNL	2189	FEL
				BHL	Sec	27	T09S	R21E	0056	FNL	2238	FWL
43-047-508	378	NBU	921-27C3BS		Sec	27	T09S	R21E	1750	FNL	2184	FEL
				BHL	Sec	27	T09S	R21E	0971	FNL	1423	FWL
43-047-508	379	NBII	921-27C4DS		Sec	27	T09S	R21E	1730	FNI.	2187	TET
13 017 300	, , ,	1120	721 270120								2525	
42 045 500			001 00000		<b>a</b>	0.77	m000	D01E	1 7 7 0		0101	
43-047-508	880	NBU	921-27G2CS								2181 2565	

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:1-11-10

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED:	12/18/2009		API NO. ASSIGNED:	43047508660000
WELL NAME:	NBU 921-11N			
OPERATOR:	KERR-MCGEE OIL &	GAS ONSHORE, L.P. (N2995)	PHONE NUMBER:	720 929-6156
CONTACT:	Danielle Piernot			
PROPOSED LOCATION:	SESW 11 090S 210E		Permit Tech Review:	
SURFACE:	0322 FSL 2386 FWL		Engineering Review:	
воттом:	0322 FSL 2386 FWL		Geology Review:	
COUNTY:	UINTAH			
LATITUDE:	40.04423		LONGITUDE:	-109.51923
UTM SURF EASTINGS:	626322.00		NORTHINGS:	4433507.00
FIELD NAME:	NATURAL BUTTES			
LEASE TYPE:				
LEASE NUMBER:	UTU 01188	PROPOSED PRODUCING FORM	MATION(S): WASATCH-MES	SA VERDE
SURFACE OWNER:	2 - Indian		COALBED METHANE:	NO
RECEIVED AND/OR REVIE	WED:	LOCATION AND SITING:		
<b></b> PLAT		R649-2-3.		
Bond: FEDERAL - WYBO	)00291	Unit: NATURAL BUTTES		
Potash		R649-3-2. General		
☑️ Oil Shale 190-5				
Oil Shale 190-3		R649-3-3. Exception		
Oil Shale 190-13		✓ Drilling Unit		
<b>✓</b> Water Permit: Permit	#43-8496	<b>Board Cause No:</b> Ca	ause 173-14	
RDCC Review:		Effective Date: 12/2	2/1999	
Fee Surface Agreeme	nt	Siting: 460' fr u bou	ndary & uncommitted tract	
✓ Intent to Commingle		R649-3-11. Direction	al Drill	
Commingling Approved	I			
Comments: Presite Co	ompleted			

Stipulations:

3 - Commingling - ddoucet 4 - Federal Approval - dmason 17 - Oil Shale 190-5(b) - dmason



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

# Permit To Drill

\*\*\*\*\*

Well Name: NBU 921-11N API Well Number: 43047508660000

Lease Number: UTU 01188 Surface Owner: INDIAN Approval Date: 1/13/2010

#### **Issued to:**

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

## **Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

# **Commingle:**

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

# **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

## **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284

API Well No: 43047508660000

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov

# **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

**Approved By:** 

Gil Hunt

Associate Director, Oil & Gas

Die Hunt

	STATE OF UTAH		FORM 9				
	5.LEASE DESIGNATION AND SERIAL NUMBER:						
	UTU 01188						
SUNDE	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr						
	sals to drill new wells, significantly deepen e ugged wells, or to drill horizontal laterals. Us		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES				
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-11N				
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.		9. API NUMBER: 43047508660000				
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th S	PHON treet, Suite 600, Denver, CO, 80217 3779	<b>E NUMBER:</b> 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0322 FSL 2386 FWL			COUNTY: UINTAH				
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SESW Section: 11	IP, RANGE, MERIDIAN: Township: 09.0S Range: 21.0E Meridian: S		STATE: UTAH				
11. CHE	CK APPROPRIATE BOXES TO INDICATE	E NATURE OF NOTICE, REPORT,	OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
	☐ ACIDIZE	ALTER CASING	CASING REPAIR				
Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	☐ CHANGE WELL NAME				
1/13/2011	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE				
SUBSEQUENT REPORT	☐ DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION				
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK				
	☐ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION				
SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON				
	☐ TUBING REPAIR	VENT OR FLARE	☐ WATER DISPOSAL				
☐ DRILLING REPORT	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION				
Report Date:	☐ WILDCAT WELL DETERMINATION	OTHER	OTHER:				
12. DESCRIBE PROPOSED OR CO	MPLETED OPERATIONS. Clearly show all perti	inent details including dates, depths, v	olumes, etc.				
Kerr-McGee Oil & G	as Onshore, L.P. (Kerr-McGee)	respectfully requests an					
l .	APD for the maximum time allo		Approved by the				
undersigned	with any questions and/or com	iments. Thank you.	Utah Division of Oil, Gas and Mining				
			_				
Date: 01/13/2011							
- R nacillo							
By: Drown By:							
NAME (DI FACE DESIGNATION							
NAME (PLEASE PRINT) Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	Regulatory Analyst					
SIGNATURE N/A		<b>DATE</b> 1/11/2011					



Sig

# The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

# Request for Permit Extension Validation Well Number 43047508660000

**API:** 43047508660000 **Well Name:** NBU 921-11N

Location: 0322 FSL 2386 FWL QTR SESW SEC 11 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date Original Permit Issued:** 1/13/2010

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

ire revis	ion. Following is a checklist	of some items related to th	e application, v	vhich should be verified.
	ted on private land, has the ed?  Yes  No	ownership changed, if so, h	as the surface	agreement been
	iny wells been drilled in the requirements for this location		ll which would	affect the spacing or
	ere been any unit or other a proposed well? 🔵 Yes 🥃		could affect th	e permitting or operation
	here been any changes to the proposed location?		vnership, or rig	htof- way, which could
• Has th	e approved source of water	for drilling changed? 🔘 🐧	'es 📵 No	
	here been any physical char e in plans from what was dis			
• Is bon	ding still in place, which cov	vers this proposed well?	Yes 🖳 No	Approved by the Utah Division of II, Gas and Mining
		Date: 1/11/2011	ougue <b>rante</b>	01/13/2011
litie:	Regulatory Analyst Represent	ting: KERR-MUGEE UIL & GAS	ONSHORE PL. PI	00.cul 110

Form 3160-3 (August 2007)

# RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** 

DEC #8 2009

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

# APPLICATION FOR PERMIT TO DRILL OR REENTER

Lease Serial No.

6. If Indian, Allottee or Tribe Name

UTU01188

	entropie of Ab. Or			
1a. Type of Work: 🛛 DRILL 🔲 REENTER		7. If Unit or CA Agreement, Name and No. 891008900A		
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ O		8. Lease Name and Well No. NBU 921-11N		
KERRMCGEE OIL&GAS ONSHOREMA: Daniell	: DANIELLE E PIERNOT e.Piernot@anadarko.com	9. API Well No. 43 047 50866		
3a. Address PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156	10. Field and Pool, or Exploratory NATURAL BUTTES		
4. Location of Well (Report location clearly and in accord	lance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area		
At surface SESW 322FSL 2386FWL	40.04424 N Lat, 109.51993 W Lon	Sec 11 T9S R21E Mer SLB		
At proposed prod. zone SESW 322FSL 2386FWL	40.04424 N Lat, 109.51993 W Lon	330 11 10 12 11 11 13 13 13 13 13 13 13 13 13 13 13		
14. Distance in miles and direction from nearest town or pos APPROXIMATELY 27 MILES SOUTHEAST OF	t office* FOURAY, UTAH	12. County or Parish 13. State UINTAH UT		
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to this well		
322 FEET	880.00			
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file		
APPROXIMATELY 500 FEET	10300 MD 10300 TVD	WYB000291		
21. Elevations (Show whether DF, KB, RT, GL, etc. 4838 GL	22. Approximate date work will start 01/18/2010	23. Estimated duration 60-90 DAYS		
	24. Attachments			
The following, completed in accordance with the requirements	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	4. Bond to cover the operation Item 20 above). tem Lands, the 5. Operator certification	ons unless covered by an existing bond on file (see formation and/or plans as may be required by the		
25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE E PIERNOT Ph: 720-929-61	56 Date 12/18/2009		
Title REGULATORY ANALYST I				
Approved by (Signature)	Name (Printed/Typed)  Jerry Kenczka	AUG 1 1 201		
Assistant Field Manager Lands & Mineral Resources	VERNAL FIELD OFFICE			
Application approval does not warrant or certify the applicant hoperations thereon.  Conditions of approval, if any, are attached.  CONDI	olds legal or equitable title to those rights in the subject l	ease which would entitle the applicant to conduct		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representations.	make it a crime for any person knowingly and willfully	o make to any department or agency of the United		

Additional Operator Remarks (see next page)



Electronic Submission #79023 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Committed to AFMSS for processing by GAIL JENKINS on 12/23/2009 ()

ALIC 1 9 2044

AUG 1 8 2011

**NOTICE OF APPROVAL** 

DIV. OF OIL, GAS & MINING.

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*



# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL FIELD OFFICE VERNAL, UT 84078

(435) 781-4400



### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No: Kerr McGee Oil & Gas Onshore

NBU 921-11N

43-047-50866

Location: Lease No:

SESW, Sec. 11, T9S, R21E

UTU-01188

Agreement:

**Natural Buttes Unit** 

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER: (435) 781-3420** 

# A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### **NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	_	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	_	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	_	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well: NBU 921-11N 8/9/2011

### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- Pain facilities "Shadow Gray."
- Monitor location by a permitted archaeologist during the construction process.
- Construct low-water crossings on access road.
- Construct drainages to route water runoff around well pad.
- Bring in and use pit run/gravel on well pad/access road.
- Conduct a raptor survey prior to initiating any surface disturbance activity, including construction
  of the proposed location, pipeline, or access road, or drilling or completion operation if any such
  operation will take place during the raptor nesting season (January 1 through September 30). If
  an active raptor nest is identified during a survey, conduct the construction, drilling, and/or
  completion operation according to the seasonal restriction detailed in the Uinta Basin-specific
  RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines. (See
  Appendix D).
- If project construction operations are not initiated before July 13, 2010, KMG shall conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D), and conduct operations according to agency specifications.
- Conduct a new biological survey in accordance with the guidelines specified in the USFWS
  Rare Plant Conservation Measurements for Uinta Basin Hookless cactus and the 2008 BLM
  RMP ROD, to include a 300-foot buffer from proposed construction operations (See Appendix
  D) and conduct operations according to agency specifications and the requirements of the BO
  issued as a result of Section 7 USFWS consultation

## **BIA Standard Conditions of Approval**

- Soil erosion will be mitigated by reseeding all disturbed areas.
- The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic

Page 3 of 7 Well: NBU 921-11N 8/9/2011

will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

- An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations
  of this document and in the Application for Permit to Drill. A closed drilling system shall be used
  in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe
  Technician, BIA, and other agencies involved.
- The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
- A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
- Major low water crossings will be armored with pit run material to protect them from erosion.
- All personnel shall refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.
- If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
- Before the site is abandoned the company will be required to restore the right-of-way to near its
  original state. The disturbed area will be reseeded with desirable perennial vegetation. If
  necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable
  seed mixture.
- Noxious weeds will be controlled on all surface disturbances within the project area. If noxious
  weeds spread from the project area onto adjoining land, the company will also be responsible
  for their control.
- If project construction operations are scheduled to occur after December 31, 2009, KMG shall conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002. If active raptor nest are identified during a new survey, KMG shall conduct its operations according to the seasonal restrictions detailed in the Uinta basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (See Appendix D).
- USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix D).
- All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
- If artifacts or any culturally sensitive materials are exposed or identified during construction, all
  construction must cease and immediate notification to the Energy and Minerals Department and
  the Cultural Rights Protection Officer.

Page 4 of 7 Well: NBU 921-11N 8/9/2011

# DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

A Gama Ray Log shall be run from TD to surface.

#### Variances Granted:

#### Air Drilling:

- Properly lubricated and maintained rotating head, variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for two truck/trailer mounted air compressors located within 40 feet from the well bore and 60' from the blooie line.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for kill fluid.
- Automatic igniter. Variance granted for igniter due to there being no productive formations while drilling with air.
- FIT test. Variance granted due to well-known geology and problems that can occur with FIT test.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- <u>Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.</u>
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be

Page 5 of 7 Well: NBU 921-11N 8/9/2011

performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at <a href="https://www.ONRR.gov">www.ONRR.gov</a>.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

Page 7 of 7 Well: NBU 921-11N 8/9/2011

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
  Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
  and all future meter proving schedules. A copy of the meter calibration reports shall be
  submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
  standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
  measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
  Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
  order that a representative may witness plugging operations. If a well is suspended or
  abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent
  Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual
  plugging of the well bore, showing location of plugs, amount of cement in each, and amount of
  casing left in hole, and the current status of the surface restoration.

	FORM 9				
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01188		
	RY NOTICES AND REPORTS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
	Do not use this form for proposals to drill new wells, significantly deepen existing wells below current pottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.				
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-11N				
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.		9. API NUMBER: 43047508660000		
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th S	<b>PHO</b> treet, Suite 600, Denver, CO, 80217 3779	<b>NE NUMBER:</b> 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0322 FSL 2386 FWL	COUNTY: UINTAH				
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SESW Section: 11	STATE: UTAH				
11. CHE	CK APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPORT,	OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	☐ ACIDIZE	☐ ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	☐ CHANGE WELL NAME		
Approximate date work will start.	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION		
Jule of Holl Completions	OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK		
✓ SPUD REPORT	☐ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud: 12/21/2011	REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	☐ TUBING REPAIR	☐ VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	APD EXTENSION		
·	□ WILDCAT WELL DETERMINATION	OTHER	OTHER:		
12 DESCRIBE PROPOSED OR CO	DMPI FTFD OPFRATIONS Clearly show all ner	tinent details including dates, denths, v	volumes etc		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.  RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON  12/21/2011 AT 1230 HRS.					
NAME (PLEASE PRINT) Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	TITLE Regulatory Analyst			
SIGNATURE N/A		<b>DATE</b> 12/22/2011			

Print Form

# BLM - Vernal Field Office - Notification Form

Subr	rator <u>KERR-MCGEE OIL &amp; GA</u> nitted By <u>SHEILA WOPSOCŁ</u> Name/Number <u>NBU 921-11</u>	Phone Nun		
Qtr/( Leas	Qtr <u>SE/SW</u> Section <u>11</u> e Serial Number <u>UTU-01188</u> Number <u>4304750866</u>	Township g	<u>s</u> R	ange <u>21E</u>
	<u>d Notice</u> – Spud is the initia pelow a casing string.	l spudding o	f the we	ll, not drilling
	Date/Time <u>12/21/2011</u>	0800 HRS.	AM 🗸	РМ
_	ng – Please report time cas	ing run starl	ts, not ce	ementing
time	s. Surface Casing Intermediate Casing Production Casing Liner Other		וס	RECEIVED DEC 2 1 2011 V. OF OIL, GAS & MINING
	Date/Time 01/22/2012	0800 HRS	AM 🗸	PM 🔲
BOPI	E Initial BOPE test at surface BOPE test at intermediate 30 day BOPE test Other			
	Date/Time		AM 🗌	РМ
Rem	arks <mark>ESTIMATED DATE AND</mark> <del>LOVEL YOUNG AT 435.</del>	TIME. PLEA <del>781.7051 FO</del>	SE CONT R MORE	TACT

**Entity Assignment** 

#### STATE OF UTAH **DEPARTMENT OF NATURAL RESOURCES** DIVISION OF OIL, GAS AND MINING

The deal of the second state of the second s			ENTITY ACTI	ON FORM					
Operator:	ator: KERR McGEE OIL & GAS ONSHORE LP				Operator Account Number: N 2995				
ddress:	1368 SOUTH 1200 EAST					-			
	city VI	ERNAL							
	state		zip 84078		P	hone Nu	mber: _(	435) 781-7024	
Well 1									
API Nu	mber		Well Name	QQ	Sec	Twp	Rng	County	
43047	50866	NRII 021-11N		SEGIN	11	90	215	LINTAL	

	Number	Number	·	Effective Date
$\mathcal{Z}$	99999	2900	12/21/2011	12/28/11
Comments:	MIRU PETE MARTIN BUG SPUD WELL ON 12/21/20	CKET RIG. BLKH	k = mvRD = u	ISMUD

**New Entity** 

**Current Entity** 

Well 2 **API Number Well Name** QQ Sec Twp Rng County **Action Code Current Entity New Entity Spud Date Entity Assignment** Number Number **Effective Date** 

Comments:

**Action Code** 

API Number	Well N	lame	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
comments:				<del> </del>	<del></del>		

#### **ACTION CODES:**

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

**SHEILA WOPSOCK** 

Name (Please Print)

**Spud Date** 

Signature

**REGULATORY ANALYST** 

12/22/2011

Title

Date

(5/2000)

RECEIVED

DEC 2 2 2011

DIV. OF OIL, GAS & MINING

Sundry Number: 21353 Approval of this: 43047508660000

Action is Necessary

	STATE OF UTAH		FORM 9		
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	G	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01188		
SUNDF	RY NOTICES AND REPORTS ON	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
Do not use this form for proposition-hole depth, reenter plu DRILL form for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-11N		
2. NAME OF OPERATOR:			9. API NUMBER:		
KERR-MCGEE OIL & GAS ONS	<u> </u>		43047508660000		
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th S	PHONE N Street, Suite 600, Denver, CO, 80217 3779	720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0322 FSL 2386 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSHI	IP, RANGE, MERIDIAN: Township: 09.0S Range: 21.0E Meridian: S		STATE: UTAH		
11. CHE	CK APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPORT,	OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
_	☐ ACIDIZE ☐	ALTER CASING	☐ CASING REPAIR		
Approximate date work will start:	✓ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	☐ CHANGE WELL NAME		
12/19/2011	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	□ NEW CONSTRUCTION		
·		PLUG AND ABANDON	☐ PLUG BACK		
SPUD REPORT		RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION		
Date of Spud:		SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON		
		VENT OR FLARE SI TA STATUS EXTENSION	☐ WATER DISPOSAL ☐ APD EXTENSION		
DRILLING REPORT Report Date:		OTHER			
			OTHER:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval to deepen to the Blackhawk formation (part of the Mesaverde Group), a closed loop drilling option, surface casing size change, and a production casing change. All other aspects of the previously approved drilling plan will not change. These proposals do not deviate from previously submitted and approved plans. Please see attachments. Thank you.  Date:  By:					
NAME (PLEASE PRINT) Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	TITLE Regulartory Analyst			
SIGNATURE N/A		<b>DATE</b> 12/19/2011			

Sundry Number: 21353 APT Well Number: 43047508660000

Action is Necessary

NBU 921-11N Drilling Program
1 of 7

# Kerr-McGee Oil & Gas Onshore. L.P.

NBU 921-11N

Surface: 322 FSL / 2386 FWL SESW

Section 11 T9S R21E

Unitah County, Utah Mineral Lease: UTU-01188

#### **ONSHORE ORDER NO. 1**

#### **DRILLING PROGRAM**

# Estimated Tops of Important Geologic Markers: Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,815'	
Birds Nest	2,120'	Water
Mahogany	2,614'	Water
Wasatch	5,171'	Gas
MVU2	7,969'	Gas
Sego	10,250'	Gas
Castlegate	10,317'	Gas
Blackhawk	10,720'	Gas
TVD	11,320'	
TD	11,320'	

### 3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program

### 4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Drilling Program

Sundry Number: 21353 APT Well Number: 43047508660000

Action is Necessary

NBU 921-11N Drilling Program
2 of 7

#### 5. <u>Drilling Fluids Program</u>:

Please refer to the attached Drilling Program

#### 6. <u>Evaluation Program</u>:

Please refer to the attached Drilling Program

#### 7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 11320' TVD, approximately equals 7,471 psi (0.66 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 5,032 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

### 8. <u>Anticipated Starting Dates:</u>

Drilling is planned to commence immediately upon approval of this application.

#### 9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- · Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

Sundry Number: 21353 APP Well Number: 43047508660000

Action is Necessary

NBU 921-11N Drilling Program
3 of 7

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

#### **Background**

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

#### **Variance for BOPE Requirements**

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

#### **Variance for Mud Material Requirements**

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Sundry Number: 21353 APT Well Number: 43047508660000

Action is Necessary

NBU 921-11N Drilling Program 4 of 7

#### Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

#### **Variance for FIT Requirements**

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

#### Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

#### 10. Other Information:

Please refer to the attached Drilling Program.

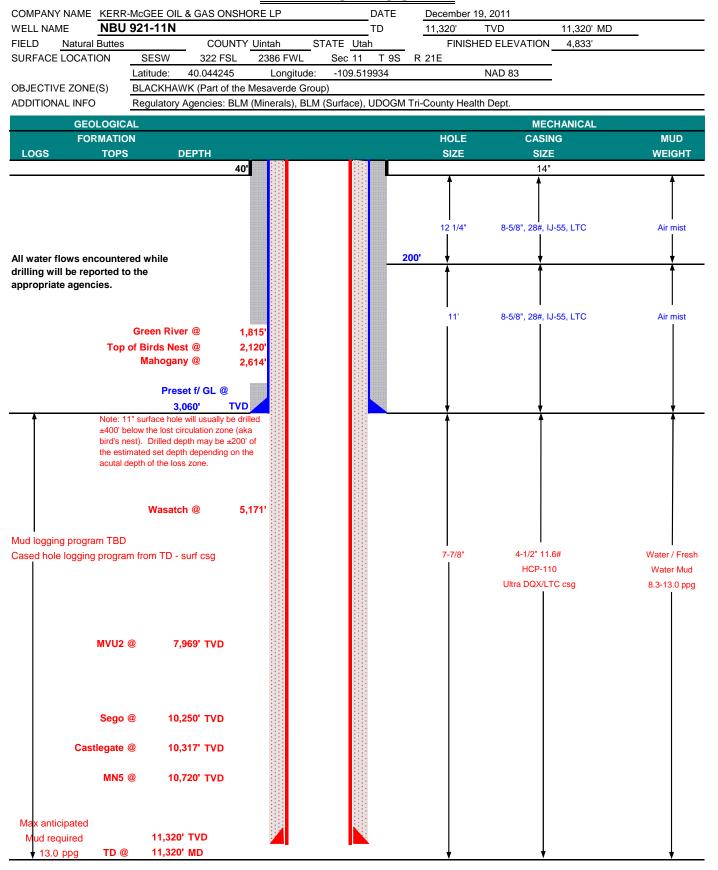
Sundry Number: 21353 APT Well Number: 43047508660000

Action is Necessary

NBU 921-11N Drilling Program 5 of 7



# KERR-McGEE OIL & GAS ONSHORE LP <u>DRILLING PROGRAM</u>



Sundry Number: 21353 App Well Number: 43047508660000

Action is Necessary

NBU 921-11N Drilling Program
6 of 7

**DESIGN FACTORS** 

DQX

N/A

N/A

367,000

3.49

**TENSION** 



### KERR-McGEE OIL & GAS ONSHORE LP

**DRILLING PROGRAM** 

CONDUCTOR

**SURFACE** 

CASING PROGRAM

LTC SIZE **INTERVAL** WT. GR. CPLG. BURST COLLAPSE 14" 0-40 3,390 1,880 348,000 8-5/8" 0 3,060 28.00 **IJ-55** LTC 1.76 1.31 4.64 10,690 8,650 279,000 0 5,000 11.60 HCP-110 1.13 4-1/2" DQX to 1.19 4-1/2" 5,000 to 11,320 11.60 HCP-110 LTC 1.19 1.13 4.75

**Surface Casing:** 

**PRODUCTION** 

(Burst Assumptions: TD = 13.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

#### **CEMENT PROGRAM**

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGH	łT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1		+ 0.25 pps flocele			•		
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
		+ 2% CaCl + 0.25 pps flocele			•		
SURFACE		NOTE: If well will circulate water t	o surface, op	tion 2 will b	e utilized		
Option 2 LEAD	2,560'	65/35 Poz + 6% Gel + 10 pps gilsonite	240	35%	11.00		3.82
		+ 0.25 pps Flocele + 3% salt BWOW			_		
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
		+ 0.25 pps flocele			_		
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION LEAD	4,670'	Premium Lite II +0.25 pps	360	35%	12.00		3.38
		celloflake + 5 pps gilsonite + 10% gel					
		+ 0.5% extender					
TAIL	6,650'	50/50 Poz/G + 10% salt + 2% gel	1,570	35%	14.30		1.31
		+ 0.1% R-3					

<sup>\*</sup>Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

#### FLOAT EQUIPMENT & CENTRALIZERS

SURFACE Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

**PRODUCTION** 

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

#### ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

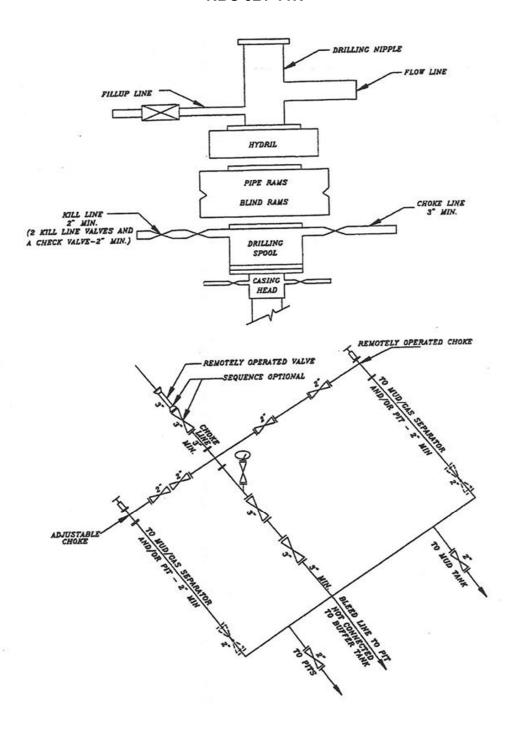
Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING	ENGINEER:		DATE:	
		Nick Spence / Danny Showers / Chad Loesel	•	
DRILLING	SUPERINTENDENT:		DATE:	
		Kenny Gathings / Lovel Young		

<sup>\*</sup>Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**Drilling Program** 7 of 7

# **EXHIBIT A NBU 921-11N**



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Sundry Number: 21353 APT Well Number: 43047508660000

Action is Necessary

#### Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

Sundry Number: 22613 API Well Number: 43047508660000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01188
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-11N
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047508660000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 8021	<b>PHONE NUMBER:</b> 17 3779 720 929-	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0322 FSL 2386 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SESW Section: 1	dian: S	STATE: UTAH	
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:  SUBSEQUENT REPORT Date of Work Completion:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
✓ DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
1/31/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:
to proper property on	COMPLETED OPERATIONS. Clearly show	- United	<u> </u>
MIRU AIR RIG ON RAN SURFACE CAS	JAN. 28, 2012. DRILLED SUF SING AND CEMENTED. WELL OF CEMENT JOB WILL BE INC COMPLETION REPORT.	RFACE HOLE TO 3050'. IS WAITING ON ROTARY CLUDED WITH WELL	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 31, 2012
NAME (PLEASE PRINT) Jaime Scharnowske	<b>PHONE NUM</b> 720 929-6304	BER TITLE Regulartory Analyst	
SIGNATURE N/A		<b>DATE</b> 1/31/2012	

# State of Utah - Notification Form

Operator <u>Anadarko Petroleum</u> Rig Name/# <u>PIO</u> Submitted By <u>STUART NEILSON</u> Phone Number <u>4</u> Well Name/Number <u>NBU 921-11N</u> Qtr/Qtr <u>SE/4 SW/4</u> Section <u>11</u> Township <u>9S</u> Range Lease Serial Number <u>UTU01188</u> API Number 4304750866	135-790-2921
Casing – Time casing run starts, not cementing ti	mes.
Production Casing Other	
Date/Time AM _ PM _	
BOPE Initial BOPE test at surface casing point Other	
Date/Time <u>2/6/12</u> <u>6</u> AM M PM	
Rig Move Location To:  Date/Time AM  PM	RECEIVED FEB 0 6 2012 DIV OF OIL, GAS & MINING

Remarks

# State of Utah - Notification Form

Operator <u>Anadarko Petroleum</u> Rig Name/# <u>PIONEER 54</u>
Submitted By <u>STUART NEILSON</u> Phone Number <u>435-790-2921</u>
Well Name/Number <u>NBU 921-11N</u>
Qtr/Qtr <u>SE/4 SW/4</u> Section <u>11</u> Township <u>9S</u> Range 21E
Lease Serial Number <u>UTU01188</u>
API Number 4304750866

Casing – Time casing run starts, not cementing ti	mes.
<ul><li>Production Casing</li><li>Other</li></ul>	
Date/Time <u>2/14/12</u> <u>6</u> AM ⊠ PM □	
BOPE Initial BOPE test at surface casing point Other	
Date/Time AM _ PM _	RECEIVED FEB 1 3 2012
Rig Move Location To: NBU 920-24B	DIV. OF OIL, GAS & MINING
Date/Time <u>2/15/12</u> <u>7</u> AM ⊠ PM □	
Remarks	

Sundry Number: 23183 API Well Number: 43047508660000

STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES  DIVISION OF OIL, GAS, AND MINING		FORM 9		
		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01188		
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES		
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 921-11N		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>9. API NUMBER:</b> 43047508660000		
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 720 929-6		9. FIELD and POOL or WILDCAT:		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0322 FSL 2386 FWL		COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 11 Township: 09.0S Range: 21.0E Meridian: S		STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
	ACIDIZE	ALTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN [	FRACTURE TREAT	NEW CONSTRUCTION	
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK	
		_		
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION	
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	LI TEMPORARY ABANDON	
✓ DRILLING REPORT	L TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION	
2/15/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  MIRU ROTARY RIG. FINISHED DRILLING FROM 3,050' TO 11,332' ON FEBRUARY 13, 2012. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED PIONEER 54 RIG ON FEBRUARY 15, 2012 @ 18:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.  The second of the completion				
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBE 720 929-6304	R TITLE Regulartory Analyst		
SIGNATURE	. 20 020 000 1	DATE		
N/A		2/17/2012		

Sundry Number: 23895 API Well Number: 43047508660000

STATE OF UTAH		FORM 9	
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01188	
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-11N
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>9. API NUMBER:</b> 43047508660000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021	<b>PHONE NUMBER:</b> 7 3779 720 929-6	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0322 FSL 2386 FWL		COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 11 Township: 09.0S Range: 21.0E Meridian: S		STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION		
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
DRILLING REPORT     Report Date:	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
3/9/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:
THE SUBJECT WEL 1900 HRS. THE CH	COMPLETED OPERATIONS. Clearly show LL WAS PLACED ON PRODUC RONOLOGICAL WELL HISTOR TH THE WELL COMPLETION R	CTION ON 03/09/2012 AT RY WILL BE SUBMITTED	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 16, 2012
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMB 435 781-7024	BER TITLE Regulatory Analyst	
SIGNATURE	.55 . 5 . 7 62 1	DATE	
N/A		3/14/2012	